

**WIRELESS COMMUNICATION DEVICE WITH MARKUP LANGUAGE BASED
MAN-MACHINE INTERFACE**

ABSTRACT OF THE DISCLOSURE

A system, method, and software product provide a wireless communications
5 device with a markup language based man-machine interface. The man-machine
interface provides a user interface for the various telecommunications functionality of the
wireless communication device, including dialing telephone numbers, answering
telephone calls, creating messages, sending messages, receiving messages, establishing
configuration settings, which is defined in markup language, such as HTML, and
10 accessed through a browser program executed by the wireless communication device.
This feature enables direct access to Internet and World Wide Web content, such as Web
pages, to be directly integrated with telecommunication functions of the device, and
allows Web content to be seamlessly integrated with other types of data, since all data
presented to the user via the user interface is presented via markup language-based pages.
15 The browser processes an extended form of HTML that provides new tags and attributes
that enhance the navigational, logical, and display capabilities of conventional HTML,
and particularly adapt HTML to be displayed and used on wireless communication
devices with small screen displays. The wireless communication device includes the
browser, a set of portable components, and portability layer. The browser includes
20 protocol handlers, which implement different protocols for accessing various functions of
the wireless communication device, and content handlers, which implement various
content display mechanisms for fetching and outputting content on a screen display.